	INGENIERÍA BASICA UNIDAD DE REMOCION DE MERCURIO	GIPI GERENCIA DE INGENIERÍA, PROYECTOS E INFRAESTRUCTURA
	INGENIERÍA DE INSTRUMENTACIÓN Y CONTROL	REV. 3

4.1 Válvulas de seguridad



12-2-ITS-DS-10001


GIPI
GERENCIA DE INGENIERÍA,
PROYECTOS E
INFRAESTRUCTURA

EMPRESA	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS
PROYECTO	INGENIERÍA BÁSICA- UNIDAD DE REMOCIÓN DE MERCURIO
LOCALIZACIÓN	PLANTA DE SEPARACIÓN DE LÍQUIDOS CARLOS VILLEGAS, YACUIBA- BOLIVIA

HOJA DE DATOS

HOJA DE DATOS
VÁLVULAS DE SEGURIDAD

3	14-02-2018	EMITIDO PARA APROBACIÓN	JTA / RCM	CPM	WOM
2	26-01-2018	EMITIDO PARA REVISIÓN	JTA / RCM	CPM	WOM
1	08-01-2018	EMITIDO PARA REVISIÓN	JTA / RCM	ATR	WOM
REV	FECHA	DESCRIPCION	ELABORADO	REVISADO	APROBADO

 <p>La fuerza que transforma Bolivia</p>	HOJA DE DATOS VALVULA DE SEGURIDAD				GIPI GERENCIA DE INGENIERÍA, PROYECTOS E INFRAESTRUCTURA
	12-2-ITC-DS-10001			HOJA 1 de 1	REV. 1

PSV-1085 A/B					
GENERAL	Tag Number		PSV-1085 A/B		
	Service		Safety valve V-101A		
	Location		Field		
	P&ID		YPB10036-B-PID-101A		
	Function		Pressure relief		
	Mounting		Local		
	Line		XX"-P-1212-C1-B		
PROCESS CONDITIONS	Fluid		Natural Gas		
	Max Pressure	Temperature Max.	1135 Psig	175 °F	
	Oper Pressure	Oper temperature	942,6 Psig	131 °F	
RELIEVING CONDITIONS	Set pressure		1135	psig	
	Allowable overpressure		21	%	
	Discharge temperature		375.772	°F	
	Relief case/Scenario		Fire		
	Discharge to		Flare		
FLOWING FLUID AT RELIEVING CONDITIONS	Required flowrate		30210,771	kg/h	
	Volumic flowrate		-	m3/h	
	Density (PT)		-	kg/m3	
	Molecular weight		18,54		
	Compressibility factor		0,879673876		
	Cp/Cv		1,46		
DESIGN DATA (1)	Design Code		API 520		
	Calculated Orifice Area		0,872	in²	
	Rated Flowrate		44587,071	kg/h	
	Inlet Size		2	in	
	Outlet Size		3,0	in	
	Type		Conventional		
	Selected Orifice Area		1.287		
	Orifice Designation		J		
	Bonnet Type		closed		
	Cap Type		screwed		
	Gag				
Flange Finish		RF			


NOTES:

(1) Size will be confirmed by EPC CONTRACTOR. Must includ manifold two ways and two sets.

(2) Stamps UV-ASME and National Board (NB).

(3) Applicable codes and standards:

- API 521 Guide Pressure Relieveing and Depressuring Systems.
- API 526 Flange Steel Safety Relief Valves (Orifice Sizing and Designation).
- ASME SEC. VIII Pressure Vessels.

 <p>La fuerza que transforma Bolivia</p>	HOJA DE DATOS VALVULA DE SEGURIDAD				GIPI GERENCIA DE INGENIERÍA, PROYECTOS E INFRAESTRUCTURA
	12-2-ITC-DS-10001			HOJA 1 de 1	REV. 1
PSV-1086 A/B					
GENERAL	Tag Number		PSV-1086A/B		
	Service		Safety valve V-101B		
	Location		Field		
	P&ID		YPB10036-B-PID-101A		
	Function		Pressure relief		
	Mounting		Local		
	Line		XX"-P-1218-C1-B		
PROCESS CONDITIONS	Fluid		Natural Gas		
	Max Pressure	Temperature Max.	1135 Psig	175 °F	
	Oper Pressure	Oper temperature	942,6 Psig	131 °F	
RELIEVING CONDITIONS	Set pressure		1135	psig	
	Allowable overpressure		21	%	
	Discharge temperature		375.772	°F	
	Relief case/Scenario		Fire		
	Discharge to		Flare		
FLOWING FLUID AT RELIEVING CONDITIONS	Required flowrate		30210,771	kg/h	
	Volumic flowrate		-	m3/h	
	Density (PT)		-	kg/m3	
	Molecular weight		18,54		
	Compressibility factor		0,879673876		
	Cp/Cv		1,46		
DESIGN DATA (1)	Design Code		API 520		
	Calculated Orifice Area		0,872	in²	
	Rated Flowrate		44587,071	kg/h	
	Inlet Size		2	in	
	Outlet Size		3,0	in	
	Type		Conventional		
	Selected Orifice Area		1.287		
	Orifice Designation		J		
	Bonnet Type		closed		
	Cap Type		screwed		
	Gag				
Flange Finish		RF			
NOTES: (1) Size will be confirmed by EPC CONTRACTOR. Must includ manifold two ways and two sets. (2) Stamps UV-ASME and National Board (NB). (3) Applicable codes and standards: - API 521 Guide Pressure Relieveing and Depressuring Systems. - API 526 Flange Steel Safety Relief Valves (Orifice Sizing and Designation). - ASME SEC. VIII Pressure Vessels.					



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GIPI
GERENCIA DE INGENIERÍA,
PROYECTOS E
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EMPRESA	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS
PROYECTO	INGENIERÍA BÁSICA- UNIDAD DE REMOCIÓN DE MERCURIO
LOCALIZACIÓN	PLANTA SEPARADORA DE LÍQUIDOS RÍO GRANDE, SANTA CRUZ - BOLIVIA

HOJA DE DATOS

**HOJA DE DATOS
VÁLVULAS DE SEGURIDAD**

3	14-02-2018	EMITIDO PARA APROBACIÓN	JTA / RCM	CPM	WOM
2	26-01-2018	EMITIDO PARA REVISIÓN	JTA / RCM	CPM	WOM
1	08-01-2018	EMITIDO PARA REVISIÓN	JTA / RCM	ATR	WOM
REV	FECHA	DESCRIPCION	ELABORADO	REVISADO	APROBADO

 <p>La fuerza que transforma Bolivia</p>	HOJA DE DATOS VALVULA DE SEGURIDAD				GIPI GERENCIA DE INGENIERÍA, PROYECTOS E INFRAESTRUCTURA
	12-2-ITC-DS-20001			HOJA 1 de 1	REV. 1

PSV-1085 A/B					
GENERAL	Tag Number		PSV-50300/50301		
	Service		Safety valve D-501D		
	Location		Field		
	P&ID		3285-A100-632-2042-DW-002A		
	Function		Pressure Safety		
	Mounting		Local		
	Line		X"-HG-50202-CA100-B / X"-HG-50204-CA100-B		
PROCESS CONDITIONS	Fluid		Natural Gas		
	Max Pressure	Temperature Max.	1150 Psig	120 °F	
	Oper Pressure	Oper temperature	806 Psig	86,86 °F	
RELIEVING CONDITIONS	Set pressure		1150	psig	
	Allowable overpressure		21	%	
	Discharge temperature		453.790	°F	
	Relief case/Scenario		Fire		
	Discharge to		Flare		
FLOWING FLUID AT RELIEVING CONDITIONS	Required flowrate		30210,771	kg/h	
	Volumic flowrate		-	m3/h	
	Density (PT)		-	kg/m3	
	Molecular weight		18,55		
	Compressibility factor		0,864		
	Cp/Cv		1,50		
DESIGN DATA (1)	Design Code		API 520		
	Calculated Orifice Area		0,403	in²	
	Rated Flowrate		8450	kg/h	
	Inlet Size		1 1/2	in	
	Outlet Size		2	in	
	Type		Conventional		
	Selected Orifice Area		0.503		
	Orifice Designation		API G		
	Bonnet Type		closed		
	Cap Type		screwed		
	Gag				
	Flange Finish		RF		

NOTES:
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(2) Stamps UV-ASME and National Board (NB).
(3) Applicable codes and standards:
- API 521 Guide Pressure Relieveing and Depressuring Systems.
- API 526 Flange Steel Safety Relief Valves (Orifice Sizing and Designation).
- ASME SEC. VIII Pressure Vessels.